

U.S. Patent Application Serial No. 10/516,941

Amendment filed November 10, 2008

Reply to OA dated July 10, 2008

**AMENDMENTS TO THE CLAIMS:**

Please cancel claim 17 without prejudice or disclaimer, and amend claims 1-8, 16, 18 and 19, as follows. This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (Currently amended): A canister for preventing fuel vaporization in which a latent-heat storage type adsorbent composition for canisters is placed in a canister case, the composition comprising an adsorbent and a heat-storage material;

the adsorbent being capable of adsorbing fuel vapor,

the heat-storage material comprising a microencapsulated phase-change material, the phase-change material absorbing or releasing latent heat in response to temperature change.

Claim 2 (Currently amended): A ~~latent-heat storage type adsorbent composition for canisters~~ canister for preventing fuel vaporization according to Claim 1, wherein the adsorbent is activated carbon, activated alumina or a mixture thereof.

Claim 3 (Currently amended): A ~~latent-heat storage type adsorbent composition for canisters~~ canister for preventing fuel vaporization according to Claim 1, wherein the average particle diameter of the heat-storage material is about 1/1000 to about 1/10 of that of the adsorbent.

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Claim 4 (Currently amended): A ~~latent-heat storage type adsorbent composition for canisters~~  
canister for preventing fuel vaporization according to Claim 3, wherein the average particle diameter  
of the adsorbent is about 1  $\mu\text{m}$  to about 10 mm.

Claim 5 (Currently amended): A ~~latent-heat storage type adsorbent composition for canisters~~  
canister for preventing fuel vaporization according to Claim 1, wherein the average particle diameter  
of the heat-storage material is about 0.1 to about 500  $\mu\text{m}$ .

Claim 6 (Currently amended): A ~~latent-heat storage type adsorbent composition for canisters~~  
canister for preventing fuel vaporization according to Claim 1, wherein the heat-storage material is  
adhered to and/or deposited on the surface of the adsorbent.

Claim 7 (Currently amended): A canister for preventing fuel vaporization according to Claim  
1, wherein the latent-heat storage type adsorbent composition ~~for canisters which~~ is in a form of a  
molded article comprising ~~a latent-heat storage type adsorbent~~ the composition for canisters  
~~according to Claim 1~~ and a binder.

Claim 8 (Currently amended): A ~~latent-heat storage type adsorbent composition for canisters~~  
canister for preventing fuel vaporization according to Claim 7, wherein the molded article is in at  
least one shape selected from the group consisting of pellet, disc and block.

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Claim 9 (Withdrawn): A method for producing a latent-heat storage type adsorbent composition for canisters according to Claim 1 wherein the heat-storage material is adhered to and/or deposited on the surface of the adsorbent.

Claim 10 (Withdrawn): A method for producing a latent-heat storage type adsorbent composition for canisters according to Claim 1 wherein the heat-storage material is electrostatically adhered to and/or deposited on the surface of the adsorbent.

Claim 11 (Withdrawn): A method for producing a latent-heat storage type adsorbent composition for canisters according to Claim 1 wherein the heat-storage material and the adsorbent are uniformly mixed.

Claim 12 (Withdrawn): A method for producing a latent-heat storage type adsorbent composition for canisters according to Claim 1 wherein a slurry obtained by suspending the heat-storage material in a liquid medium is mixed with the adsorbent, and the mixture is then dried.

Claim 13 (Withdrawn): A method for producing a latent-heat storage type adsorbent composition for canisters comprising:

suspending a heat-storage material containing a microencapsulated phase-change material in a liquid medium to give a slurry, the phase-change material capable of absorbing or releasing latent heat in response to temperature change, and

spraying a liquid mixture containing the slurry and, if necessary, a binder, on the surface of the fuel vapor adsorbent.

Claim 14 (Withdrawn): A method for producing a latent-heat storage type adsorbent composition for canisters comprising:

molding a heat-storage material containing a microencapsulated phase-change material capable of absorbing or releasing latent heat in response to temperature change to produce a molded article, and

uniformly mixing a fuel vapor adsorbent and the molded article.

Claim 15 (Withdrawn): A method for producing a latent-heat storage type adsorbent composition for canisters comprising:

uniformly mixing a fuel vapor adsorbent, a powdery heat storage material containing a microencapsulated phase-change material capable of absorbing or releasing latent heat in response to temperature change or a slurry suspending the powdery heat storage material in the liquid medium, a binder and water, and

molding the resultant mixture to form a desired shape.

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Claim 16 (Currently amended): A canister for preventing fuel vaporization according to Claim 1, wherein the latent-heat storage type adsorbent composition for canisters is obtained by ~~[[the]] a method according to Claim 13~~ comprising:

suspending the heat-storage material in a liquid medium to give a slurry, and  
spraying a liquid mixture containing the slurry and, if necessary, a binder, on the surface of  
the fuel vapor adsorbent.

Claim 17 (Canceled).

Claim 18 (Currently amended): A canister for preventing fuel vaporization according to Claim 1, wherein the latent-heat storage type adsorbent composition for canisters is obtained by ~~[[the]] a method according to Claim 14~~ comprising:

molding a heat-storage material to produce a molded article, and  
uniformly mixing the adsorbent and the molded article.

Claim 19 (Currently amended): A canister for preventing fuel vaporization according to claim 1, wherein the latent-heat storage type adsorbent composition for canisters is obtained by ~~[[the]] a method according to Claim 15~~ comprising:

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uniformly mixing a fuel vapor adsorbent, the heat storage material, the heat storage material  
being a powder or a slurry suspending the powdery heat storage material in the liquid medium, a  
binder and water, and

molding the resultant mixture to form a desired shape.